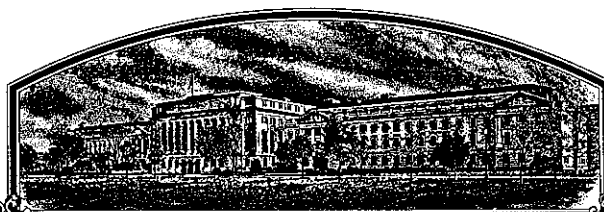


No.

8500203



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Harpool Seed Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (P.L. 57-170, 7 U.S.C. 2131 ET SEQ.)

WHEAT

'Milburn'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 31st day of August in the year of our Lord one thousand nine hundred and eighty-eight.

Attest

Kenneth H. Evans
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Richard E. Lyng
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
WAREHOUSE & SEED DIVISION

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

1. NAME OF APPLICANT(S) HARPOOL SEED INC.		2. TEMPORARY DESIGNATION 78DW14		3. VARIETY NAME MILBURN	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) DRAWER B DENTON, TEXAS 76202		5. PHONE (Include area code) 817-387-0541		FOR OFFICIAL USE ONLY PVPO NUMBER 8500203	
6. GENUS AND SPECIES NAME TRITICUM aestivum L.		7. FAMILY NAME (Botanical) GRAMINEAE		FILING DATE September 3, 1985 TIME 2:00 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	
8. KIND NAME WHEAT		9. DATE OF DETERMINATION JUNE 1984		AMOUNT FOR FILING \$ 1,800.00 DATE 9/3/85	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) CORPORATION				FEE RECEIVED AMOUNT FOR CERTIFICATE \$ 200.00 DATE July 12, 1988	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION TEXAS				12. DATE OF INCORPORATION 1962	

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

LEALAND DEAN
HARPOOL SEED INC.
DRAWER B, DENTON, TEXAS 76202

PHONE (Include area code): 817-387-0541

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

a. ☒ Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)c. ☒ Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)b. ☒ Exhibit B, Novelty Statementd. ☒ Exhibit D, Additional Description of the Variety

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.)

☐ Yes (If "Yes," answer items 16 and 17 below)☒ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☐ Yes☒ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☐ Foundation☐ Registered☐ Certified

18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ Yes (If "Yes," give date)☒ No

19. HAS THE VARIETY BEEN OFFERED FOR SALE OR MARKETING IN THE U.S. OR OTHER COUNTRIES?

☐ Yes (If "Yes," give names of countries and dates)☒ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT

SIGNATURE OF APPLICANT

DATE

28 AUG. 85

DATE

Exhibit A.**Origin and Breeding History of the Variety 'Milburn' Wheat**

- 1977 - Selected from segregating bulk hybrid population from Mexico. Exact pedigree of variety is unknown, but is suspected to be a hard red winter x hard red spring cross.
- 1978 - Planted in head row
- 1979 - Planted in single row observation plot
- 1980 - Planted in preliminary yield trials
- 1981 - Planted in preliminary yield trials
- 1982 - Planted in advanced yield trials
- 1983 - Planted in advanced yield trials small increase
- 1984 - Increase block, entry into Southern Regional Performance Nursery. Advanced Yield Trials.

Variants up to the following levels may be expected in this variety. White Awned 1/1000.

After several years of testing and observation this variety has been determined to be genetically uniform and stable.

8500203

EXIBIT B

Milburn is most similar to Bezostaya, except that Milburn is red chaffed at maturity.

Exhibit B**Data Indicative of Novelty**

Novelty is based upon the observation, that the breeder is unaware of any other commercially available hard red winter wheat that is both red chaffed and awnletted. Weather master 135 and 'Russian' are both awnletted but both are white. TAM 105 is red chaffed but awned.

U. S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION
BELTSVILLE, MARYLAND 20785OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

HARPOOL SEED INC.

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)

DRAWER B

DENTON, TEXAS 76202

FOR OFFICIAL USE ONLY

PVPO NUMBER

8500203

VARIETY NAME OR TEMPORARY
DESIGNATION

MILBURN

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., 0 8 9 or 0 9) when number is either 99 or less or 9 or less.

1. KIND:

1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

1 = SPRING 2 = WINTER 3 = OTHER (Specify) 1 = SOFT 2 = HARD 3 = OTHER (Specify)

1 = WHITE 2 = RED 3 = OTHER (Specify)

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

1 5 0 FIRST ~~XXXXXX~~ HEADING LAST FLOWERING

4. MATURITY (50% Flowering):

0 8 NO. OF DAYS EARLIER THAN 2 1 = ARTHUR 2 = SCOUT 66 3 = CHRIS
NO. OF DAYS LATER THAN 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT (From soil level to top of head):

9 2 9 CM. HIGH
CM. TALLER THAN
8 7 CM. SHORTER THAN 1 = ARTHUR 2 = SCOUT 66 3 = CHRIS
4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING (See reverse):

2 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHUR COLOR:

1 1 = YELLOW 2 = PURPLE

8. STEM:

1 Anthocyanin: 1 = ABSENT 2 = PRESENT

1 Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT

0 4 NO. OF NODES (Originating from node above ground)

2 Waxy bloom: 1 = ABSENT 2 = PRESENT

1 Internodes: 1 = HOLLOW 2 = SOLID

2 2 CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

1 Anthocyanin: 1 = ABSENT 2 = PRESENT

1 Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

2 Flag leaf at booting stage: 1 = ERECT 2 = RECURVED
3 = OTHER (Specify):

1 Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT

1 Flag leaf: 1 = NOT TWISTED 2 = TWISTED

2 Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT

0 9 MM. LEAF WIDTH (First leaf below flag leaf)

2 6 CM. LEAF LENGTH (First leaf below flag leaf)

11. HEAD:

<input type="checkbox"/> 2	Density: 1 = LAX 2 = DENSE	<input type="checkbox"/> 2	Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify) _____
<input type="checkbox"/> 3	Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED		
<input type="checkbox"/> 4	Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER (Specify) _____		
<input type="checkbox"/> 0 <input type="checkbox"/> 9	CM. LENGTH	<input type="checkbox"/> 0 <input type="checkbox"/> 9	MM. WIDTH

12. GLUMES AT MATURITY:

<input type="checkbox"/> 3	Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.)	<input type="checkbox"/> 3	Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)
<input type="checkbox"/> 2	Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE	<input type="checkbox"/> 1	Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

☐ 1 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

☐ 1 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

☐ 2 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

<input type="checkbox"/> 1	Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL	<input type="checkbox"/> 1	Check: 1 = ROUNDED 2 = ANGULAR
<input type="checkbox"/> 2	Brush: 1 = SHORT 2 = MEDIUM 3 = LONG	<input type="checkbox"/> 1	Brush: 1 = NOT COLLARED 2 = COLLARED
<input type="checkbox"/> 3	Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK		
<input type="checkbox"/> 3	Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) _____		
<input type="checkbox"/> 0 <input type="checkbox"/> 6	MM. LENGTH	<input type="checkbox"/> 0 <input type="checkbox"/> 3	MM. WIDTH
		<input type="checkbox"/> 3 <input type="checkbox"/> 5	GM. PER 1000 SEEDS

17. SEED CREASE:

<input type="checkbox"/> 1	Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI'	<input type="checkbox"/> 3	Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI'
----------------------------	--	----------------------------	--

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="checkbox"/> 0	STEM RUST (Races)	<input type="checkbox"/> 2	LEAF RUST (Races) MODERATE RES. PREV. RACES	<input type="checkbox"/> 0	STRIPE RUST (Races)	<input type="checkbox"/> 1	LOOSE SMUT
<input type="checkbox"/> 2	POWDERY MILDEW	<input type="checkbox"/> 0	BUNT	<input type="checkbox"/> 0	OTHER (Specify) _____		

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="checkbox"/> 0	SAWFLY	<input type="checkbox"/> 1	APHID (Bydv.)	<input type="checkbox"/> 1	GREEN BUG	<input type="checkbox"/> 0	CEREAL LEAF BEETLE
<input type="checkbox"/>	OTHER (Specify) _____		HESSIAN FLY	<input type="checkbox"/> 0	GP	<input type="checkbox"/> 0	A
			RACES:	<input type="checkbox"/> 0	B	<input type="checkbox"/> 0	C
				<input type="checkbox"/> 0	D	<input type="checkbox"/> 0	E
				<input type="checkbox"/> 0	F	<input type="checkbox"/> 0	G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	BEZOSTAYA	Seed size	
Leaf size	"	Seed shape	
Leaf color	"	Coleoptile elongation	
Leaf carriage	"	Seedling pigmentation	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (a) L.W. Briggie and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

Exhibit D

Additional Description of the Variety 'Milburn'

'Milburn' is a hard red winter wheat derived from a segregating bulk population obtained from Mexico. The exact pedigree is unknown, but is suspected to be the result of a cross between a hard red winter and hard red spring wheat. Winter growth habit is semi-prostrate.

In 1984 tests at Dallas, Texas, 'Milburn' was eight (8) days earlier than 'Scout 66', but at Amarillo, Texas, was approximately four (4) days later. In comparison with TAM 105, the same year, 'Milburn' at Denton and Dallas, Texas was 3-4 days earlier, but approximately 3 days later at Amarillo. This would indicate a sensitivity to day length.

Plant height averages 92.9 cm which is 8.7 cm. Shorter than Scout 66. Stems, exhibit hollow internodes, lack Anthocyanin, have a waxy bloom, and average 4 above ground nodes.

Plant color at booting is green, with the flag leaf being recurved and non-twisted. Auricles, are without anthocyanin and are glabrous. The first leaf sheath is glabrous but has a waxy bloom. Leaves average 9 mm in width with an average length of 26 cm.

Heads are dense, strap shaped, awnleted, and brown in color at maturity, averaging 9 cm in length and 9 mm in width. Glumes are long, wide with oblique shoulders and obtuse beaks.

Seed are red, ovate, with rounded cheeks, a medium length, not collared brush, and average 6 mm in length and 3 mm in width. Phenol reaction is light brown.

'Milburn' is resistant to the prevalent races of powdery mildew, at the time of release, is moderately resistant to the prevalent races of leaf rust, but is susceptible to loose smut.

8500203

MORRISON MILLING COMPANY
DENTON, TEXAS

EXPERIMENTAL MILLING REPORT

No. 45-85Date 7-3-85

Sample Identification

Harport Millburn

WHEAT ANALYSIS

Moisture 12.36Protein (AS is) 12.35Protein (14% Basis) 12.13Test Weight 61.8

WEIGHTS OF PRODUCT

Flour 68.4gBran 243.5Shorts 87.3gTotal 1014.8% Extraction 67

Milling Remarks

Yield 2.47Milling time - 9 minutes

FLOUR ANALYSIS

X MILL	Approximate Commercial Mill Results
Moisture <u>13.05</u>	
Protein <u>11.20</u>	
Ash <u>.487</u>	

X MILL	Approximate Commercial Mill Results
Time to 500 Line <u>1 1/2 min.</u>	
Time to Peak <u>3 min.</u>	
Time on 500 Line <u>4 1/2 min.</u>	
Drop End of 20 Min. <u>150</u>	
MTI <u>80</u>	

Remarks

Abs. 549

Ellen Shantz
Chemist

8500203



C. W. BRABENDER INSTRUMENTS, INC. SOUTH HACKENSACK, N.J. U.S.A.

X-mill
#15-85

Time To 500 Line

1 1/2 min

Time To Peak

3 min

Time on 500 Line

4 1/2 min

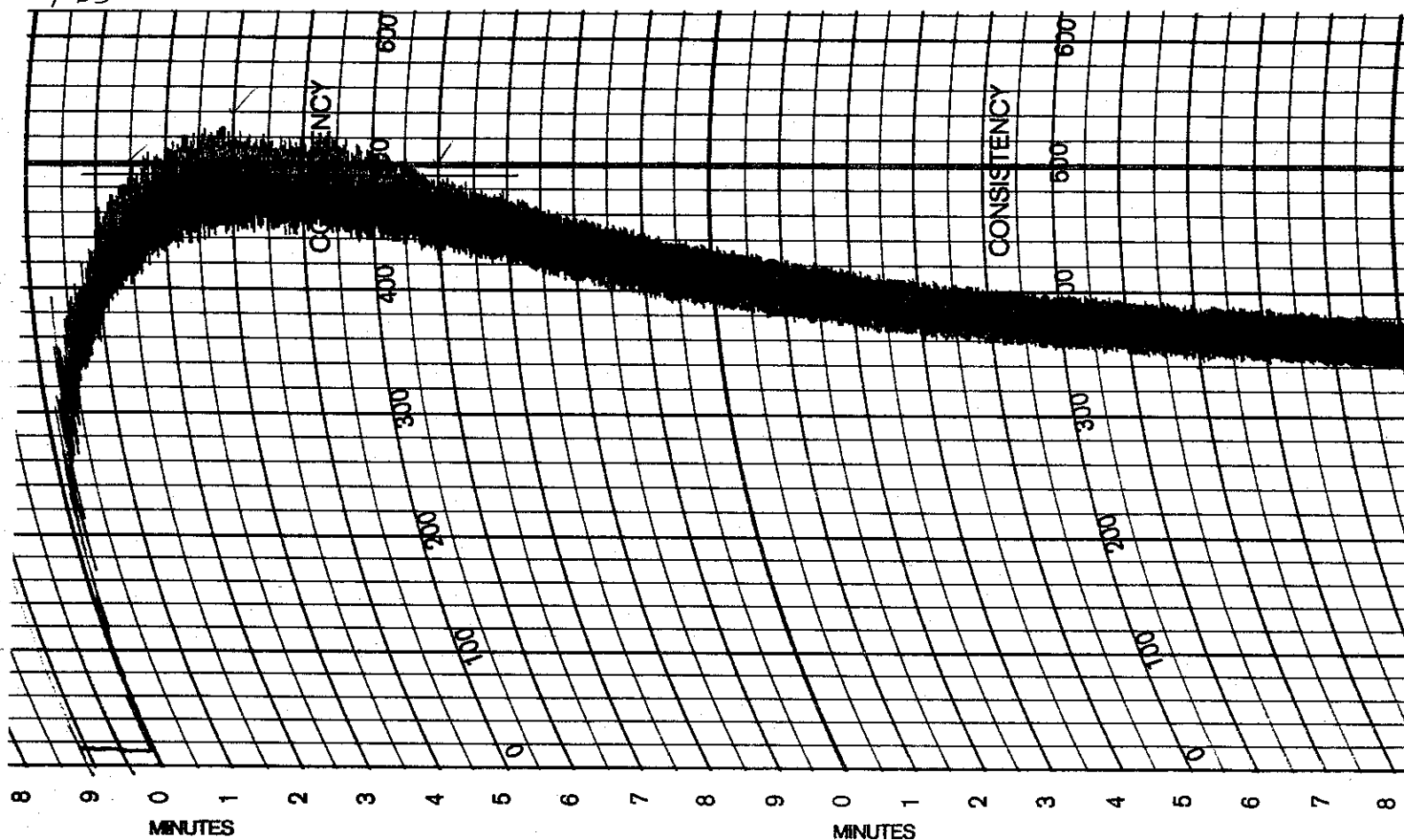
Units Drop End 20 Min.

150

VTI

80

Abs. 54.9



8500203

MORRISON MILLING COMPANY
DENTON, TEXAS

EXPERIMENTAL MILLING REPORT

No. 47-85Date 7-3-85

Sample Identification

Harpool Millburn W.T.

WHEAT ANALYSIS

Moisture 10.25Protein (AS is) 14.35Protein (14% Basis) 14.04Test Weight 60^g

WEIGHTS OF PRODUCT

Flour 874.0gBran 213.0gShorts 143.1gTotal 1230.1% Extraction 71

Milling Remarks

yield 2.35Milling time - 8 minutes

FLOUR ANALYSIS

X MILL	Approximate Commercial Mill Results
Moisture	<u>12.35</u>
Protein	<u>11.85</u>
Ash	<u>510</u>

X MILL	Approximate Commercial Mill Results
Time to 500 Line	<u>1 1/2 min</u>
Time to Peak	<u>2 1/2 min</u>
Time on 500 Line	<u>1 1/2 min</u>
Drop End of 20 Min.	<u>270</u>
MTI	<u>190</u>

Remarks

Abs. 52.9

Ellen Swanger
Chemist

10

8500203



C. W. BRABENDER INSTRUMENTS, INC. SOUTH HACKENSACK, N.J. U.S.A.

X-mill
47-85

Time To 500 Line 1 1/2 min.

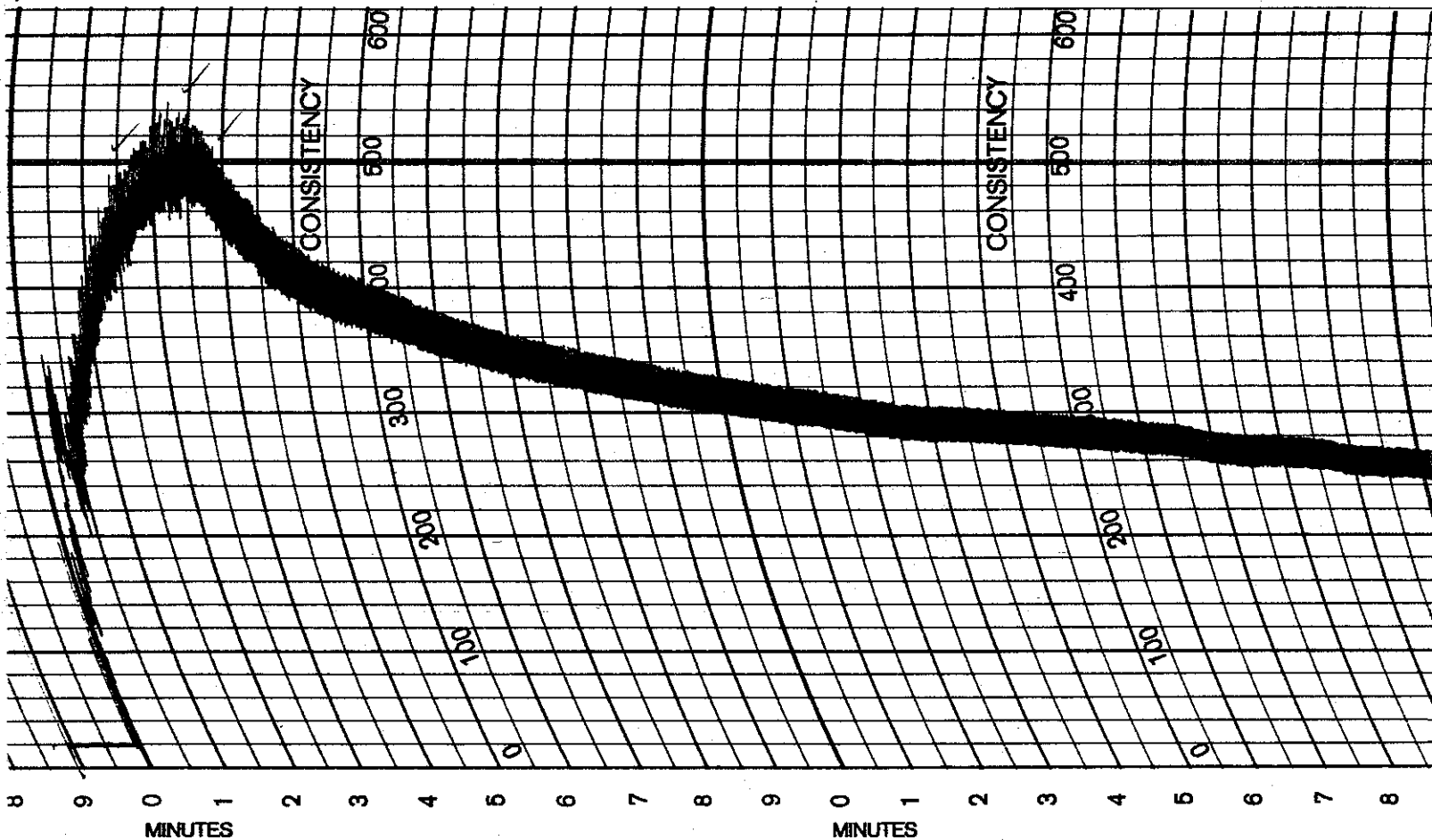
Time To Peak 2 1/2 min.

Time on 500 Line 1 1/2 min.

Units Drop End 20 Min 270

Abs. 57.9

WTI 190



HL Harpool Flour

8500203

MORRISON MILLING COMPANY

DENTON, TEXAS

EXPERIMENTAL MILLING REPORT

No. 56-83

Date 7-12-83

Sample Identification Harpool HRW 78Dw 14

WHEAT ANALYSIS

Moisture 12.88

Protein (AS is) 13.60

Protein (14% Basis) 13.42

Test Weight 59.8

WEIGHTS OF PRODUCT

Flour 870

Bran 456

Shorts 79

Total 1405

% Extraction 61.9

Milling Remarks _____

FLOUR ANALYSIS

X MILL	Approximate Commercial Mill Results
Moisture	<u>13.00</u>
Protein	<u>10.90</u> <i>as-is</i>
Ash	<u>.357</u>

X MILL	Approximate Commercial Mill Results
Time to 500 Line	<u>1 1/2 min.</u>
Time to Peak	<u>4 min</u>
Time on 500 Line	<u>4 min</u>
Drop End of 20 Min.	<u>200</u>
MTI	<u>120</u>

Remarks Abs. 57.4

Ellen Swartz
Chemist

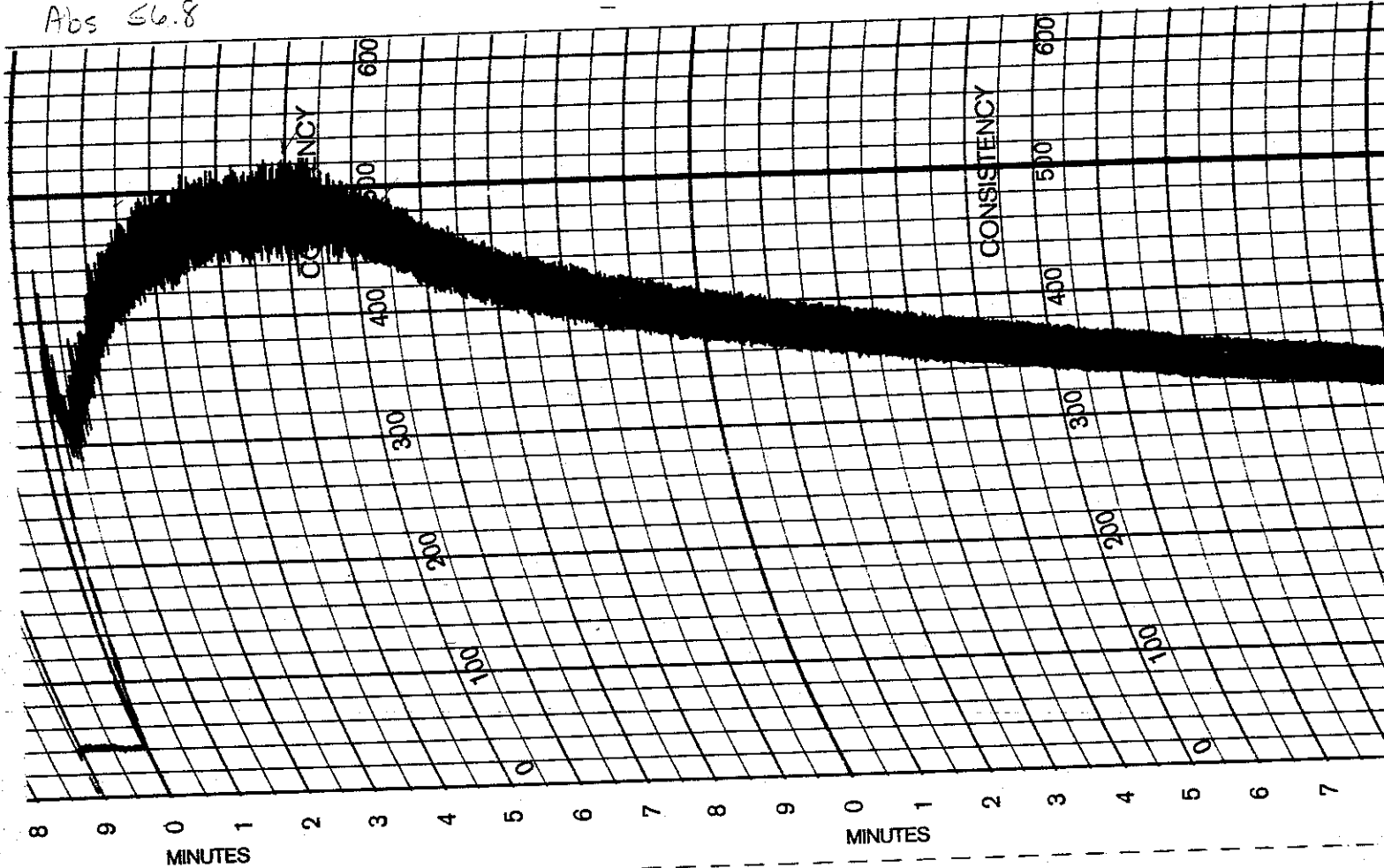
8500203



C. W. BRABENDER INSTRUMENTS, INC. SOUTH HACKENSACK, N.J. U.S.A.

Time To 500 Line 1 1/2 minTime To Peak 4 minTime on 500 Line 4 minUnits Drop End 20 Min 170MTI 100

Abs 66.8





FARINO-PLASTO-CHART

8500203



C. W. BRAB

X-mill
#56.83

Time To 500 Line

1 1/2 min

Time To Peak

4 min

Time on 500 Line

4 min

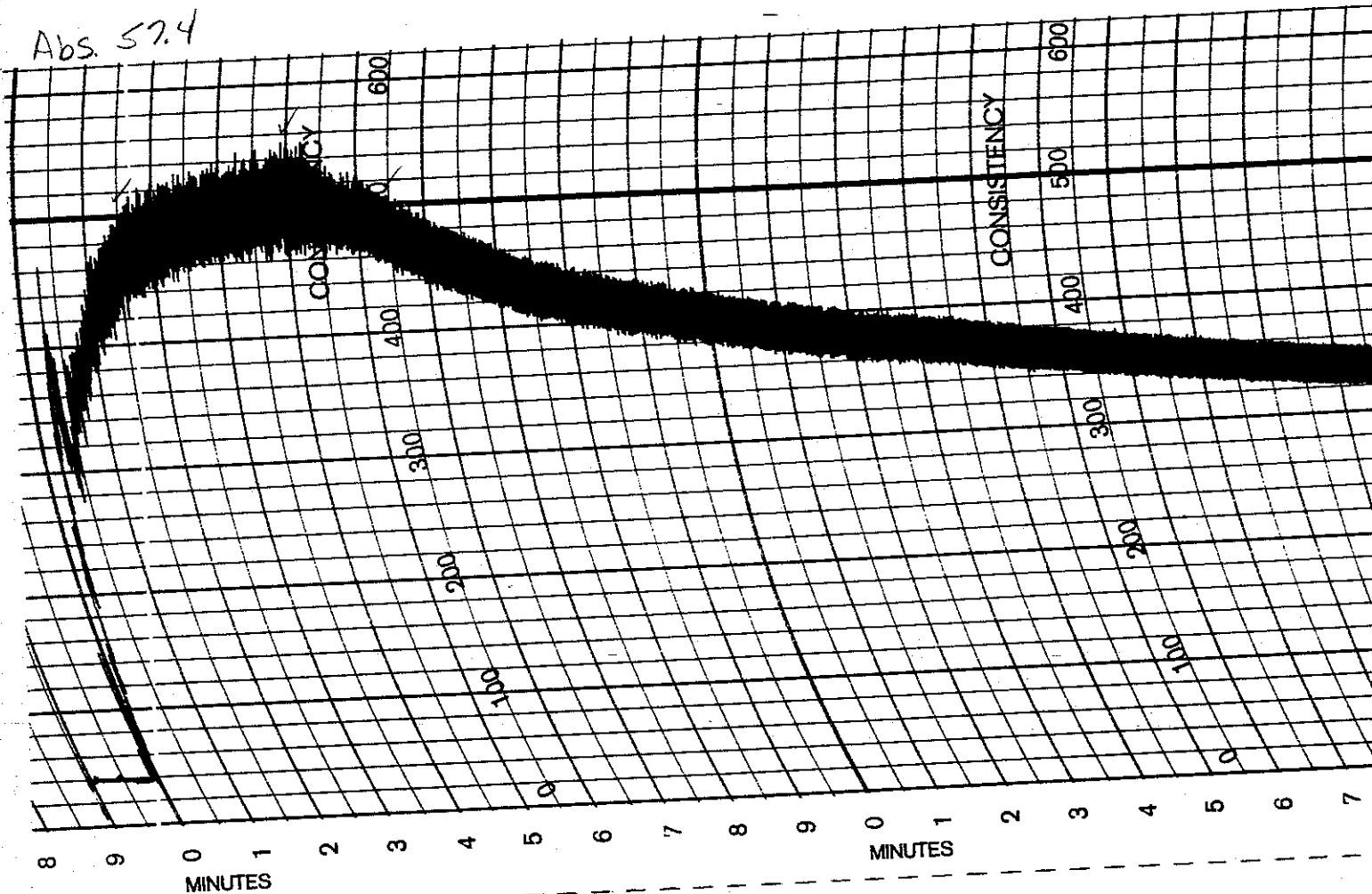
Units Drop End 20 Min

200

WTI

120

Abs. 57.4



1986 Harpool Seed, Inc. Preliminary
Group 2
Large Scale

The new variety Milburn (86-805) and the check variety Tam 105 (86-804) were submitted for 1986 large-scale evaluation. Milburn is an awnless ved-chaffed hard red winter wheat which exhibits excellent resistance to the prevelant races or powdery mildew, with moderate resistance to leaf rust and septoria. Milburn has the potential for excellent yields of both grain and forage. This variety has the same general maturity as Coker 68-15, Coker 916, Vona or Hawk. Since it is an awnless wheat, it lends itself to the stockman who wishes to graze wheat past heading.

EXPERIMENTAL

8500203

Sample # 86-805

Sample Group 2

Reported by: Rebecca Dikken
Name AIB Flour Quality Committee
Company American Institute of Baking
Address 1213 Bakers Way

Instructions: Circle the number following the description that best fits your evaluation. Please answer all questions. Remember to compare each experimental sample to the designated check for that group.

1. Bake Absorption (14% MB) <u>64</u> %		2. Loaf Volume (actual c.c.) <u>2525</u> c.c.		3. Loaf Weight (grams) <u>457.5</u> g	
4. Dough Characteristics Bucky-Tough 5 4.5 Strong-Elastic 4 3.5 Medium Pliable 3 2.5 Mellow-Very Pliable 2 <u>1.5</u> Weak, Short-Sticky 1		5. Bake Mixing Time Very Long 5 4.5 Long 4 3.5 Medium 3 2.5 Short <u>2</u> 1.5 Very Short 1		6. Mixing Tolerance Excellent Tolerance 5 4.5 Good Tolerance 4 3.5 Average Tolerance 3 2.5 Poor Tolerance 2 1.5 V. Poor Tolerance <u>1</u>	
7. Internal Characteristics					8. Overall Baking Quality Excellent 5 4.5 Good 4 3.5 Med. Quality 3 2.5 Poor 2 <u>1.5</u> V. Poor 1
a. Crumb Color White 5 4.5 Creamy-White <u>3.5</u> 4 Creamy 3 2.5 Slightly Dull 2 1.5 Dull-Grey 1		b. Grain V. Close, V. Uniform 5 4.5 Close, Uniform 4 3.5 Sl. Open <u>3</u> 2.5 Open 2 1.5 V. Open, Uneven 1		c. Texture Silky 5 4.5 Sl. Silky 4 3.5 Sl. Silky-Harsh <u>3</u> 2.5 Harsh 2 1.5 V. Harsh 1	

Comments: Very poor bread flour

Machinability - slack

RETURN TO: Steve Curran
Grain Science & Ind.
Shellenberger Hall
Kansas State Univ.
Manhattan, KS. 66506

8500203

EXIBIT E

Milburn is a variety developed and solely owned by Harpool
Seed Inc. Box 29667 Dallas Texas 75229-0667